Notice Inviting e-Tender

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Procurement of 1(one) Combined Surgical Workstation for Gastroenterology with Electrosurgical generator, APC and Hydro/Water Jet system for the S.D.L.D Department of I.P.G.M.E & R and S.S.K.M Hospital

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(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-329/2023	**Dated-27.06.2023**

Amendment-I

Revised Technical Specification Pg 31
Schedule – I

Technical Specification for Combined Surgical Workstation for Gastroenterology with Electrosurgical generator, APC and Water Jet

An integrated RF, Argon and Kinetic energy surgical platform which can dissect, coagulate and elevate tissue.

The system should include the following components with specifications, as stated:-

RF Energy Platform High End Electro Surgical Generator unit

- The electro surgical generator should be a 400 watt touch screen display with 15 digital signal processors.
- Unit should facilitate monopolar and bipolar functions
- Unit should have a Step guide suggesting appropriate setting configurations for every instrument and application.

- The system should make 25 million measurements / sec for better tissue effect and should measure tissue impedance through power peak system.
- System should have wifi compatibility for future OR integration.
- The System should have Wi-Fi communication interface facility to access, change and save the settings
- The system should have four multifunction sockets which can be replaced anytime upon requirements
- System should have remode function to allow user to access 6 sub programs directly from the sterile field.
- System should have Endo CUT modes for ERCP, Polypectomy & EMR.
- Unit should have Soft Coagulation mode with quick start function to be used with endoscopic coagulation forceps.
- Unit should have Dry cut & Swift Coagulation mode for optimized dissection in advanced endoscopic cases like POEM (PERORAL ENDOSCOPIC MYOTOMY), ESD (ENDOSCOPIC SUBMUCOSA DISSECTION) and STER (SUBMUCOSAL TUNNELING, ENDOSCOPIC RESECTION)
- The generator should work on a supply voltage of 100-120 VAC & 220-240 VAC
- Power consumption at Max HF power should be 550 watts with max pulse power consumption of 1600 watts.
- Unit should have Soft coagulation bipolar mode to facilitate use of bipolar instruments like gold probe.
- Unit should have Precise SECT mode for selection dissection of submucosal tissue in POEM & ESD/STER procedures.

- **Supply frequency should be in the range of 50-60 Hz**

- Unit should have the facility to store 1800 programs of applications.
- Unit should have the facility to show the active instruments on the screen display.
- The generator should have an inbuilt feature of accessory assignment.
- The generator should be compatible with Argon plasma coagulation unit having forced APC, pulsed APC and precise APC modes.
- The generator should be compatible with hydrojet to facilitate use of unique hybrid technology instrument instruments for POEM,ESD & STER
- Unit must be compatible with Irrigation pump from OEM.
- Unit should support Nessy as a neutral electrode.

Argon Plasma Coagulation (APC Unit)

For management of bleeding and devitalisation of tissue abnormalities achieved by optimal coordination with RF generator

- The Argon Plasma Coagulation system should have automatic parameters setting for various types of instruments and automatic depth controlled plasma regulation.
- Should have three different APC modes suitable for different indications
  - Precise APC – adjustment made using the effect setting for finest surface coagulation (right colon, cecum)
  - Pulsed APC - adjustment made using the parameter power settings for effective staunching of bleeding and tissue ablation
  - Forced APC - adjustment made using the parameter power settings for angiodysplasia, tissue reduction
  - Should have Adjustable argon flow rate from 0.1L/min to 8L/min in steps of 0.1L/min with automatic regulation of selected flow rate.
- Should be compatible with 3 types of APC probes from OEM-Axial Fire, Side Fire & Circumferential Fire.
- Should have the facility to use unique hybrid instruments for conditions like Barrett's Esophagus
- Should have automatic monitoring of flow rate and Argon supply and auto purge facility. It should have the facility to connect with central gas supply.
- Should give visual display of argon gas bottle content and should give Acoustic alarm when bottle content reaches a minimum.
- Should have facility for activation of unit by foot pedal of the Electro Surgical unit.
- Should have facility to use in double balloon endoscopy procedures.
- Argon gas cylinders-2 Nos. 5 liter capacity should be supplied.

Following accessories to be supplied with the Gastroenterology workstation should be from same single OEM:-

- Footswitch with facility for swapping between programs – 2Nos.
- Patient plate with equipotential ring – 50 Nos.
- Filter integrated Argon Plasma coagulation flexible probe (side fire) – 10 Nos.
- Filter integrated Argon Plasma coagulation flexible probe (asial fire) – 10 Nos.
- Filter integrated Argon Plasma coagulation flexible probe (Circumferential fire) – 10 Nos.
- Workstation trolley – 1 No.
- Monopolar cable for Endoscopic instruments – 2 Nos.

Hybridknife-T-type-1BOX
Hybridknife- I-Type -1BOX
Hybridknife-O-Type-1BOX
PUMPCATRIDGE-3BOX

Specification of Waterjet

- The microprocessor based unit should provide high velocity water jet output for parenchyma dissection and tissue layer preparations by keeping vessels and nerves intact in surgical procedures.
- The unit should provide variable high pressure water jet output ranging from 1-80(bar) effects with a volume flow of 1-55ml/min
- The unit should have programmable facility to make customized programs and can save upto 10 programs.
- The unit should have remode function to facilitate change of program settings from sterile field.
- The unit should be able to work with synchronized suction unit as well as centralized suction unit.
- The unit should have facility to upgrade to Argon plasma coagulator, electrosurgical unit from the same manufacturer.
- The unit should be compatible with open and laparoscopic (With and without suction facility to avoid excess deflation of CO2) applicators.
- The unit should be compatible with hybrid instruments having monopolar and waterjet function which can be used separately as well as simultaneously.
- The activation of unit should be controlled via footswitch
- The system's footswitch should be IPX8 certified and should be washable in surgical washers.
- The unit should have facility to work with straight applicators for liver resections and transplants
- The applicators should have a nozzle diameter of 120 micrometer to produce the optimum output
- All accessories should be sterile and single use.
- The unit should be CE and US FDA approved